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SOURCE Documentary as indicated. (Information requested.)

RECEPTLY PUBLISHED RESEARCH OF THE CEPTRAL ASIA STATE UNIVERSITY

"Reat Capacity of Some Pure Liquids and Azeotropic Mixtures, II; A. K. Zhdonov, Central Asia State U, Tashkent

"Zhur Obshch Khimii" Vol 15, 1945, pp 895-902

Values for C, were determined for iso-FrOH, iso-AnQH, EtOAn, 082, and the assotropes: bensene-iso-FrOH, bensene-iso-BuOH, C82-Me2CO, C82-MeXtCO, C82-iso-FrOH, C82-EtOLo, CUlh-MeXtCO, CClh-EtOAo, and CECl3-EDOOEt. In all cases the second derivative of the thermodynamic potential in respect to temperature was determined. In all cases interpolation formulas of the type $\mathrm{C_p} = \mathrm{A} + \mathrm{BT} + \mathrm{CT}^2$ were applicable, on the basis of which the values of k in MC_p \approx kT2 were found. Tabulates results.

"Biochemical Factors of Matural Selection in Flants," A. V. Blagoveschonskiy, Central Asia State U, Tashkent

"Zhur Obshoh Biol" Vol 6, 1945, pp 217-34

The enzymic and nonemagnic antibacterial substances produced by an organism obviously play an important role in its well-being. By suppressing or completely destroying the in erforing bestrais, they permit more symplete utilization of the nutrient substrate. Employing the protein of Verticillium dahline, and Fusarium vasinfectum as an antigen to immunize rabbits and subsequently using the serum to determine the resistance of cotton plant to these wilts, Fedotova was able to identify the resistant varieties by a negative reaction of their seems. Blaggreschemakiy assumes that the spores of forerunners

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of present parasites were carried accidentally onto a particular plant; in the course of growth some protein of the host entered the fungus, which respected with the formation of antibodies, proteclytic engages specific against a foreign protein. The nonresistant varieties are possibly those against which the fungus developed an antibody; the resistant varieties do not react with this antibody. Gives experimental data.

"Cortain Sulfanilamide Derivatives of Micotinic Acid," A. S. Sadykov, V. I. Maksimov, Central Asia State U, Tashkent

"Zhur Obshoh Khimii" Vol 16, 1946, pp 1719-28

In view of the partial control of the toric effects of sulfa drugs by administration of nicotinic and, several derivatives of sulfa drugs containing a nicotinic and residue were prepared. Sulfanilaside (7.2 g) in 38 so pyridine bases (grude) was treated with 7 g nicotinyl chloride and the mixture was heated on a steam bath 2 hours; after removal of the solvent in vacuo and dilution with 500, the crude product was purified by crystallization from 50% from 50%, then from 565, to yield 8-nicotinylsulfanilamide, melting at 255-70 (84.6%), identical with the drosslay, et al, product. Describes full process to obtain a great many derivatives.

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